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- 1 [Revisiting commit processing in distributed database systems](#)
 Ramesh Gupta, Jayant Haritsa, Krihi Ramamritham
 June 1997 **SIGMOD '97**: Proceedings of the 1997 ACM SIGMOD international conference on database management
Publisher: ACM [Request Permissions](#)
 Full text available: Pdf (1.62 MB) [Additional Information: full citation, abstract, etc.](#)
Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 77, Downloads (All Time): 1,000

A significant body of literature is available on distributed transaction processing and the relative merits of these protocols have not been studied with respect to transaction processing ...

Also published in:

 June 1997 **SIGMOD Record** Volume 26 Issue 2

- 2 [Analysis of transaction management performance](#)
 D. Duchamp
 November 1989 **SOSP '89**: Proceedings of the twelfth ACM symposium on operating systems principles
Publisher: ACM [Request Permissions](#)
 Full text available: Pdf (1.48 MB) [Additional Information: full citation, abstract, etc.](#)
Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 24, Downloads (All Time): 1,000

There is currently much interest in incorporating transactions into both programming languages. This paper provides a detailed examination of transaction manager of the Camelot system. ...

Also published in:

 November 1989 **SIGOPS Operating Systems Review** Volume 23 Issue 5


- 3 [Simplifying distributed database systems design by using a broadcast-based failure detection](#)
 Jo-Mei Chang
 June 1984 **SIGMOD '84**: Proceedings of the 1984 ACM SIGMOD international conference on database management
Publisher: ACM [Request Permissions](#)
 Full text available: Pdf (1.36 MB) [Additional Information: full citation, abstract, etc.](#)
Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 37, Downloads (All Time): 1,000

Atomic broadcast and failure detection are powerful primitives for distributed database systems. LAMBDA, they are provided as network primitives for atomic broadcast and failure detection simply ...


Also published in:

June 1984 **SIGMOD Record** Volume 14 Issue 2

4 Adaptive commitment for distributed real-time transactions

 Nandit Soparkar, Eliezer Levy, Henry F. Korth, Avi Silberschalz
November 1994 **CIKM '94: Proceedings of the third international conference on information management**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (1.08 MB)

Additional Information: [full citation](#), [abstract](#)


Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 21, Downloads (Overall): 10

Distributed real-time transaction systems are useful for both real-time and interactive applications. Standard transaction management approaches that use two-phase locking incur high costs and blocking behavior which ...

5 Approaches to fault-tolerant and transactional mobile agent execution

 Stefan Pleisch, André Schiper
September 2004 **Computing Surveys (CSUR)** . Volume 36 Issue 3

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (946.94 KB)


Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 37, Downloads (12 Months): 344, Downloads (Overall): 10


Over the past years, mobile agent technology has attracted considerable interest. This literature has been published. To further develop mobile agent technology, fault tolerance and transaction support ...

Keywords: ACID, Byzantine failures, agreement problem, asynchronous replication, tolerance, malicious places, mobile agents, replication, security, transaction support

6 Virtualizing Transactional Memory

 Ravi Rajwar, Maurice Herlihy, Konrad Lai
June 2005 **ISCA '05: Proceedings of the 32nd annual international symposium on computer architecture**

Publisher: ACM

Full text available:  Pdf (199.77 KB)

Additional Information: [full citation](#), [abstract](#)


Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 119, Downloads (Overall): 10

Writing concurrent programs is difficult because of the complexity of ensuring correctness. Conventional lock-based synchronization suffers from wellknown limitations. Non-blocking transactions as an alternative. ...

Also published in:

May 2005 **SIGARCH Computer Architecture News** Volume 33 Issue 2

7 McRT-Malloc: a scalable transactional memory allocator

 Richard L. Hudson, Bratin Saha, Ali-Reza Adl-Tabatabai, Benjamin C. Hertz
June 2006 **ISMM '06: Proceedings of the 5th international symposium on memory management**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (332.45 KB)


Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 153, Download


Emerging multi-core processors promise to provide an exponentially increasing number of processors every generation. Applications will need to be highly concurrent to fully utilize the hardware and enable maximum concurrency, libraries ...

Keywords: memory management, runtimes, synchronization, transactional memory

8 NZTM: nonblocking zero-indirection transactional memory

 Fuad Tabba, Mark Moir, James R. Goodman, Andrew W. Hay, Cong Wang
August 2009 **SPAA '09: Proceedings of the twenty-first annual symposium on Principles of Computer Systems**

Publisher: ACM 

Full text available:  Pdf (718.52 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 42, Download

This paper introduces NZTM, a nonblocking, zero-indirection, object-based transactional memory (STM) that combines the best of both hardware transactional memory (HTM) if ...


Keywords: hardware support, nonblocking synchronization, transactional memory

9 Understanding Tradeoffs in Software Transactional Memory

Dave Dice, Nir Shavit

March 2007 **CGO '07: Proceedings of the International Symposium on Code Generation and Optimization**

Publisher: IEEE Computer Society

Full text available:  Pdf (219.87 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 140, Download

There has been a flurry of recent work on the design of high performance hardware/software transactional memories (STMs and HyTMs). This paper presents a survey of these state-of-the-art algorithms, adopting ...

10 The OpenTM Transactional Application Programming Interface

Woongki Baek, Chi Cao Minh, Martin Trautmann, Christos Kozyrakis, Kunle Olukotun
September 2007 **PACT '07: Proceedings of the 16th International Conference on Architectural Support for Programming Languages and Operating Systems**

Publisher: IEEE Computer Society


Full text available:  Pdf (264.87 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 65, Download


Transactional Memory (TM) simplifies parallel programming by supporting a set of identified tasks. To date, TM programming has required the use of libraries that scale poorly with code ...

11 A nested transaction model for multilevel secure database management

 Elisa Bertino, Barbara Catania, Elena Ferrari

November 2001 **Transactions on Information and System Security (TISSEC)**

Publisher: ACM 

Full text available:  Pdf (560.96 KB)


Additional Information: full citation, abstract


Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 98, Downloads

This article presents an approach to concurrency control for transaction: Management System (MLS/DBMS). The major problem is that concurrent traditional DBMSs are not adequate in a MLS/DBMS, ...

Keywords: Nested transactions, concurrency control, covert channels, systems

12 [DracoSTM: a practical C++ approach to software transactional mem](#)

 Justin E. Gottschlich, Daniel A. Connors


October 2007 **LCSD '07: Proceedings of the 2007 Symposium on Library-C****Publisher:** ACM Full text available:  Pdf (369.00 KB)

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 18, Downloads

Transactional memory (TM) is a recent parallel programming concept w programming. TM offers numerous advantages over other synchronizati systems require complex hardware, programming ...

13 [Consensus on transaction commit](#)

 Jim Gray, Leslie Lamport

March 2006 **Transactions on Database Systems (TODS)**, Volume 31 Issu**Publisher:** ACM Full text available:  Pdf (253.13 KB)


Additional Information: full citation, abstract


Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 194, Downl

The distributed transaction commit problem requires reaching agreeme or aborted. The classic Two-Phase Commit protocol blocks if the coordin algorithms also reach agreement, ...

Keywords: Consensus, Paxos, two-phase commit

14 [Operating systems transactions](#)

 Donald E. Porter, Owen S. Hofmann, Christopher J. Rossbach, Alexander B

October 2009 **SOSP '09: Proceedings of the ACM SIGOPS 22nd symposium****Publisher:** ACM Full text available:  Pdf (490.08 KB)

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 26, Downlo




Applications must be able to synchronize accesses to operating system in the face of concurrency and system failures. *System transactions* allo heterogeneous system ...

Keywords: operating systems, race conditions, transactional memory,

-  **MIDDLE-R: Consistent database replication at the middleware level**
 Marta Patiño-Martínez, Ricardo Jiménez-Peris, Bettina Kemme, Gustavo Alonso
 November 2005 **Transactions on Computer Systems (TOCS)** , Volume 23
Publisher: ACM  Request Permissions
 Full text available:  Pdf (1.81 MB) **Additional Information:** full citation, abstracts
Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 127, Downloads (All Time): 1,234

The widespread use of clusters and Web farms has increased the importance of database replication. In this paper, we show how to implement consistent and scalable data replication at the middleware level by combining transactional concurrency control with snapshot isolation.

Keywords: Database replication, eager data replication, middleware, snapshot isolation


- 16 **Supporting nested transactional memory in logTM**
 Michelle J. Moravan, Jayaram Bobba, Kevin E. Moore, Luke Yen, Mark D. Hill
 November 2006 **ASPLOS-XII: Proceedings of the 12th international conference on architecture support for programming languages and operating systems**
Publisher: ACM  Request Permissions
 Full text available:  Pdf (239.03 KB) **Additional Information:** full citation, abstracts
Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 105, Downloads (All Time): 1,234

Nested transactional memory (TM) facilitates software composition by letting a component either knowing whether the other uses transactions. **Closed nested transactional memory** allows a component to abort a transaction until the top level ...

Keywords: logTM, nesting, transactional memory

Also published in:

October 2006	SIGOPS Operating Systems Review	Volume 40 Issue 5
October 2006	SIGARCH Computer Architecture News	Volume 34 Issue 5
November 2006	SIGPLAN Notices	Volume 41 Issue 11

- 17 **Lazy database replication with snapshot isolation**
 Khuzaima Daudjee, Kenneth Salem
 September 2006 **VLDB '06: Proceedings of the 32nd international conference on very large data bases**
Publisher: VLDB Endowment
 Full text available:  Pdf (567.69 KB) **Additional Information:** full citation, abstracts
Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 130, Downloads (All Time): 1,234

Snapshot isolation is a popular transactional isolation level in database systems. However, snapshot isolation have recently been proposed. These proposals aim to improve local concurrency controls ...

- 18 **A new approach to developing and implementing eager database replication**
 Bettina Kemme, Gustavo Alonso
 September 2000 **Transactions on Database Systems (TODS)** , Volume 25
Publisher: ACM  Request Permissions

Full text available:  Pdf (449.43 KB)

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 32, Downloads (12 Months): 235, Downloads


Database replication is traditionally seen as a way to increase the available databases. Although a large number of protocols providing data consistency are proposed, few of these ideas have ...

Keywords: database replication, fault-tolerance, group communication, replica control, total error multicast

19 Synchronization and recovery in a client-server storage system

E. Panagos, A. Biliris

August 1997 **The VLDB Journal — The International Journal on Very Large Databases** Publisher: Springer-Verlag New York, Inc.

Full text available:  Pdf (205.25 KB)


Additional Information: full citation, abstract


Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 60, Downloads

Client-server object-oriented database management systems differ significantly from traditional database systems in terms of their architecture and the applications they target. The server architecture of the EOS storage system ...

Keywords: Checkpoint, Client-server architecture, Object management, Recovery, Transaction management

20 Scalable and reliable communication for hardware transactional memory

 Seth H. Pugsley, Manu Awasthi, Nili Madan, Naveen Murailmanohar, Rajeev Rastogi
October 2008 **PACT '08: Proceedings of the 17th international conference on Architectural Support for Programming Languages and Operating Systems**

Publisher: ACM Full text available:  Pdf (381.56 KB)

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 99, Downloads

In a hardware transactional memory system with lazy versioning and lazy transaction commit, a bottleneck can emerge as a bottleneck. This is especially true for a system where multiple transactions ...

Keywords: algorithms for transaction commit, handling message loss, network messages, reliability, token coherence

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